



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

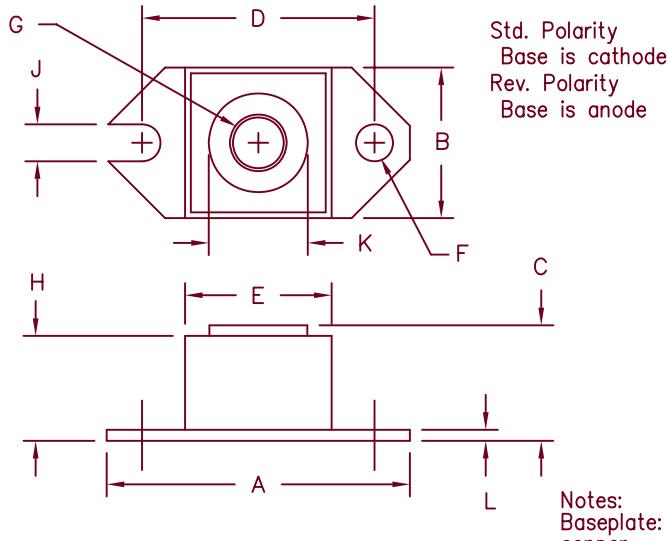
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Ultrafast Recovery Modules

HU100, 101 & 102



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	1.52	1.56	38.86	39.62	
B	.725	.775	18.42	19.69	
C	.605	.625	15.37	15.88	
D	1.177	1.197	29.90	30.41	
E	.745	.755	18.92	19.18	Sq.
F	.152	.162	3.86	4.11	Dia.
G			1/4-20 UNC-2B		
H	.540	.580	13.72	14.73	
J	.152	.162	3.86	4.11	
K	.495	.505	12.57	12.83	
L	.120	.130	3.05	3.30	Dia.

Microsemi Catalog Number	Working Reverse Voltage	Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HU10005*	50V	50V	
HU10010*	100V	100V	
HU10015*	150V	150V	
HU10020*	HU10120*	200V	200V
	HU10130*	300V	300V
	HU10140*	400V	400V
	HU10150*	500V	500V
HU10260*	600V	600V	
HU10270*	700V	700V	
HU10280*	800V	800V	

Add Suffix R for Reverse Polarity

- Ultra Fast Recovery
- 175°C Junction Temperature
- V_{RRM} 50 to 800 Volts
- High surge capacity
- 100 Amp current rating

Electrical Characteristics

	HU100	HU101	HU102	
Average forward current	I _{F(AV)}	100A	100A	100A
Case Temperature	T _C	135°C	120°C	115°C
Maximum surge current	I _{FSM}	1500A	1400A	1200A
Max peak forward voltage	V _{FM}	.975V	1.25V	1.35V
Max reverse recovery time	t _{rr}	50ns	70ns	90ns
Max peak reverse current	I _{RM}	—	6.0mA	—
Max peak reverse current	I _{RM}	—	50μA	—
Typical Junction capacitance	C _J	575pF	300pF	275pF

*Pulse test: Pulse width 300 usec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Max thermal resistance	R _{θJC}	0.5°C/W Junction to case
Typical thermal resistance (greased)	R _{θCS}	.012°C/W Case to sink
Terminal Torque		35-40 inch pounds
Mounting base torque - (outside holes)		20-25 inch pounds
Weight		1.1 ounces (32 grams) typical

HU100

Figure 1
Typical Forward Characteristics

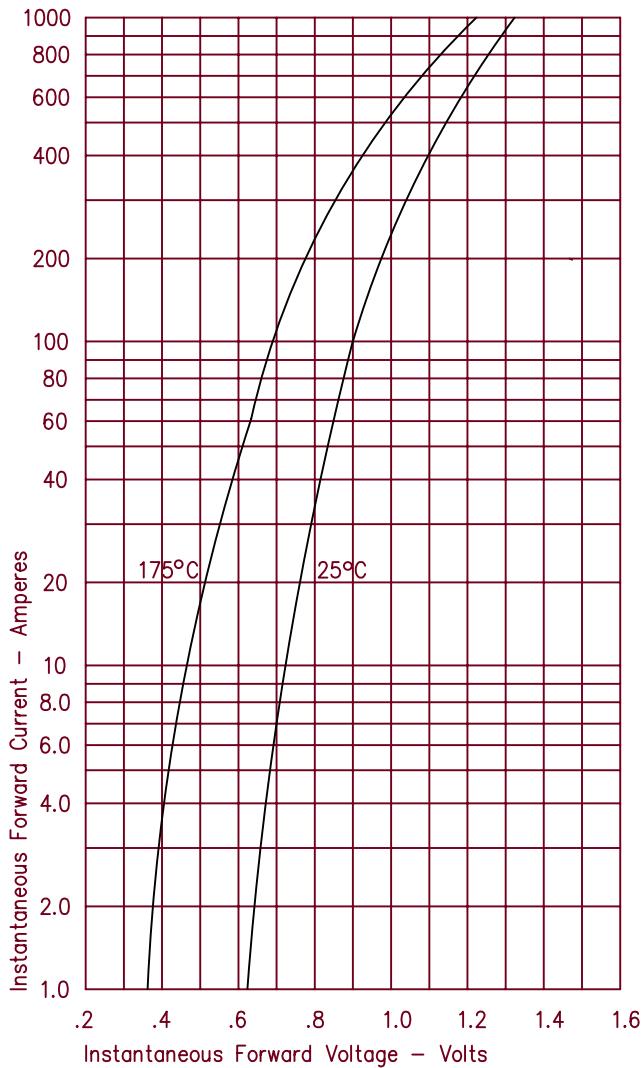


Figure 2
Typical Reverse Characteristics

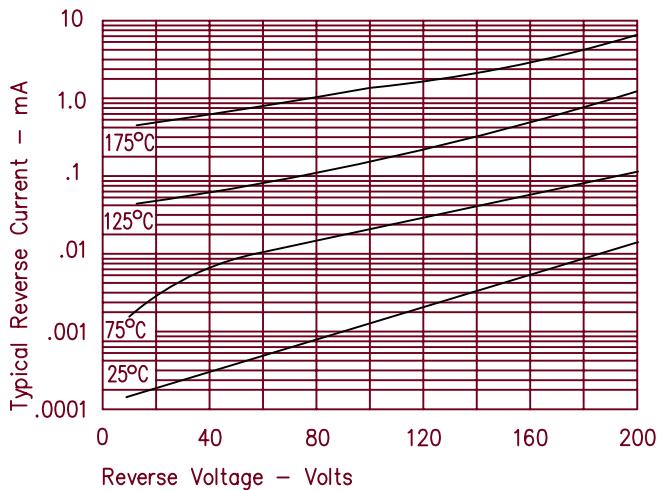


Figure 3
Typical Junction Capacitance

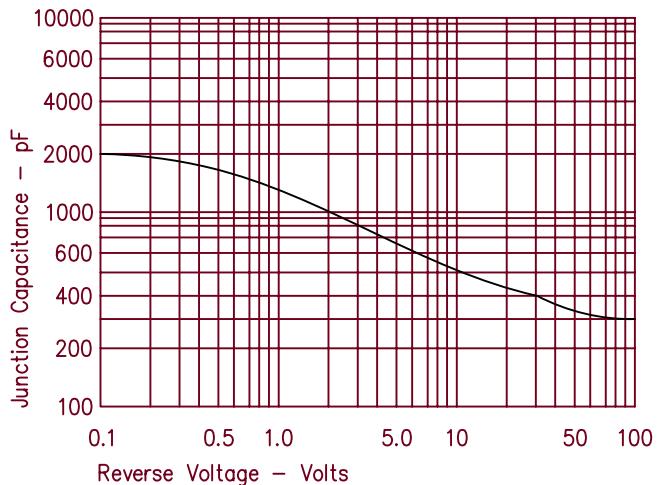


Figure 4
Forward Current Derating

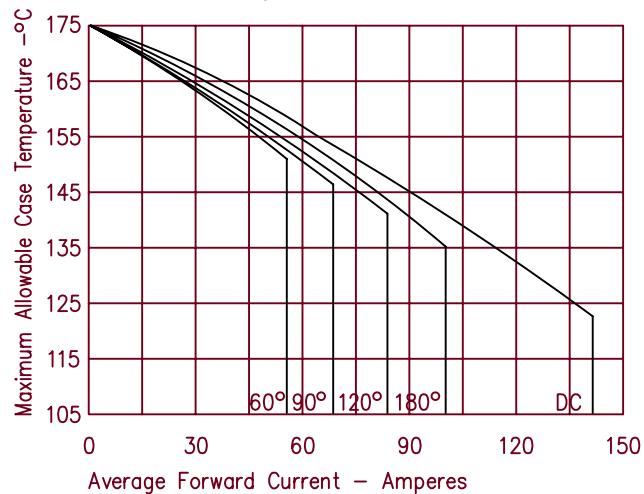
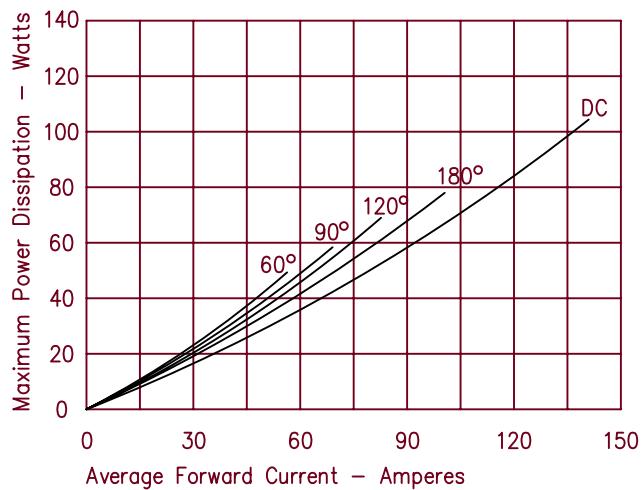


Figure 5
Maximum Forward Power Dissipation



HU101

Figure 1
Typical Forward Characteristics

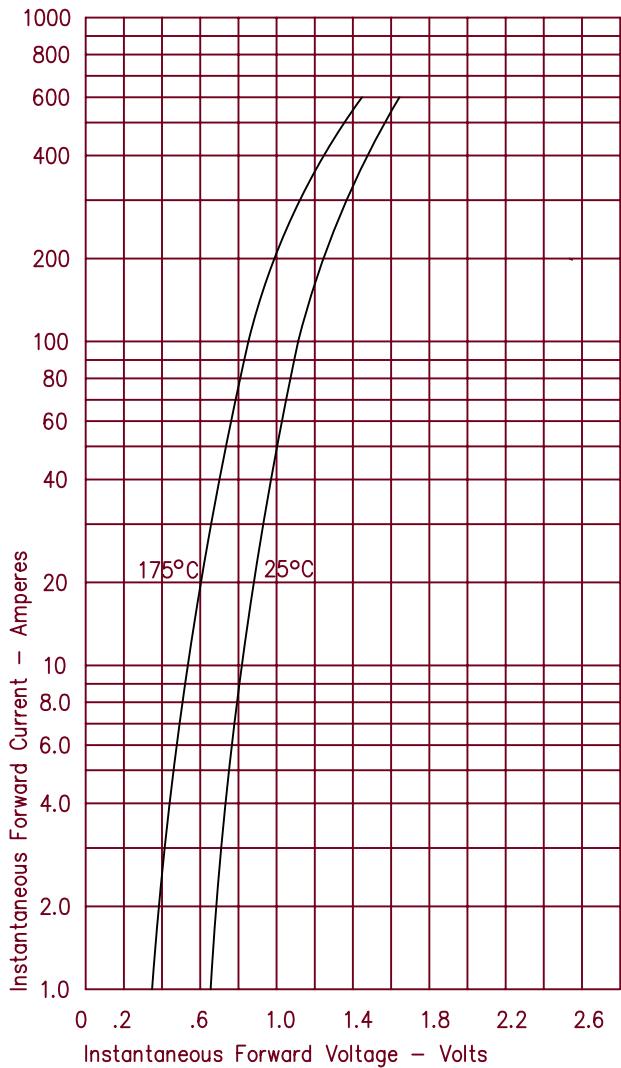


Figure 2
Typical Reverse Characteristics

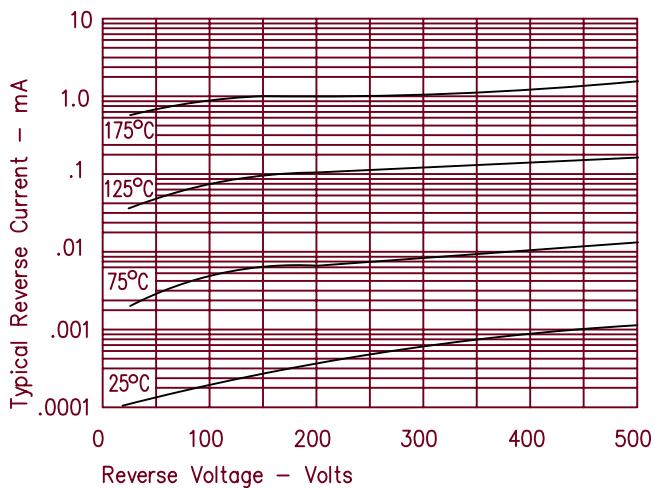


Figure 3
Typical Junction Capacitance

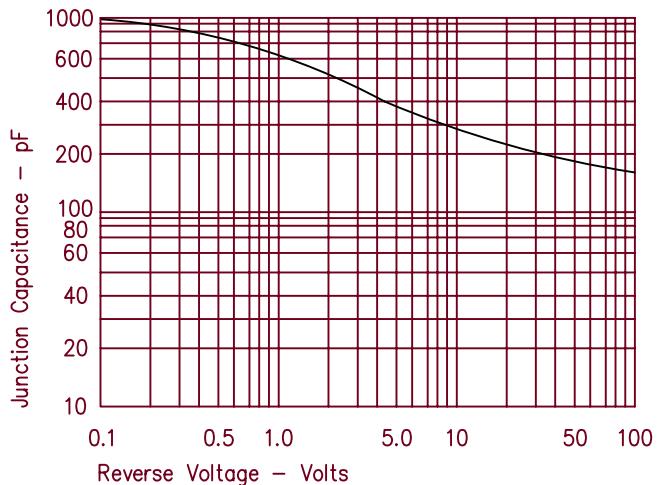


Figure 4
Forward Current Derating

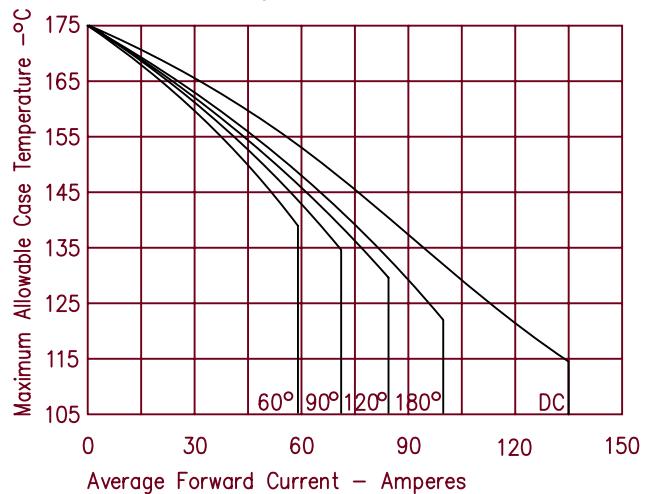
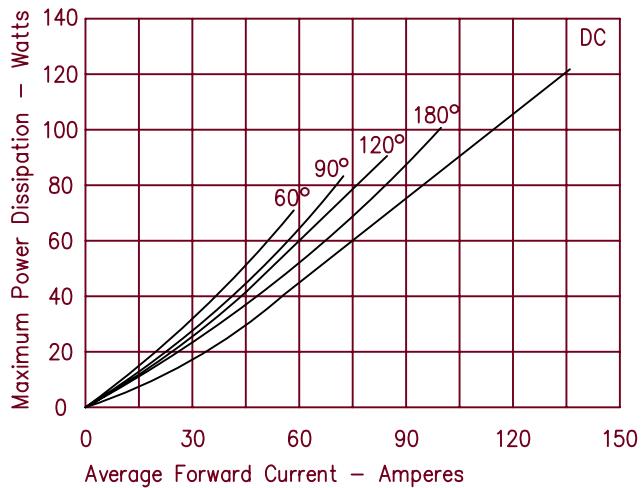


Figure 5
Maximum Forward Power Dissipation



HU102

Figure 1
Typical Forward Characteristics

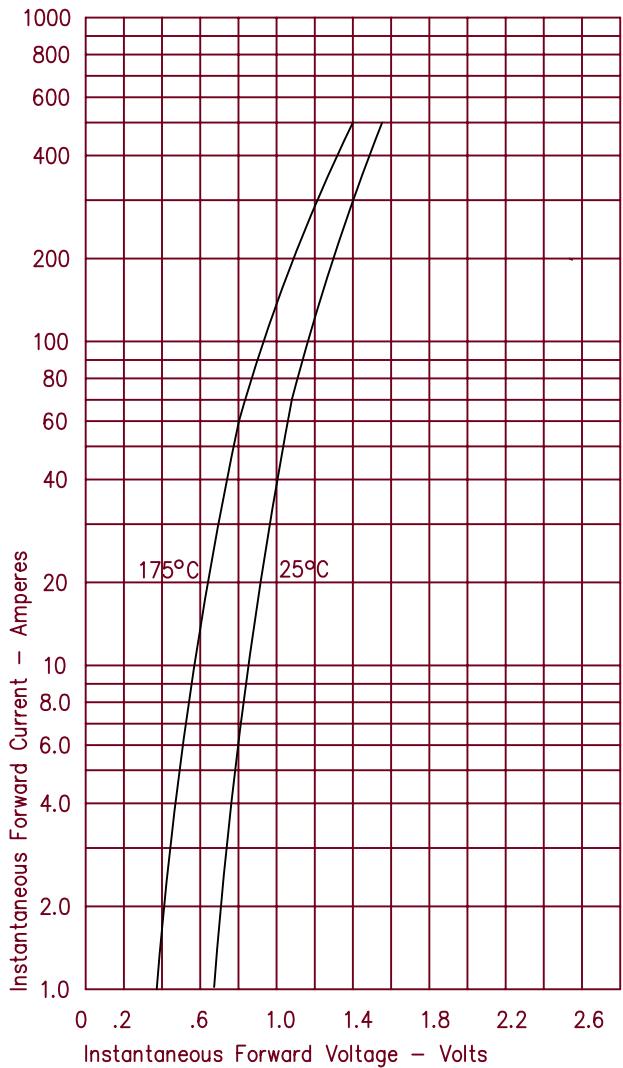


Figure 2
Typical Reverse Characteristics

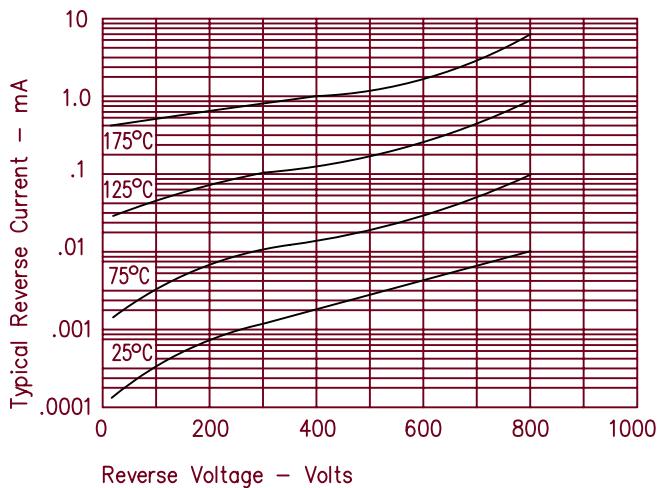


Figure 3
Typical Junction Capacitance

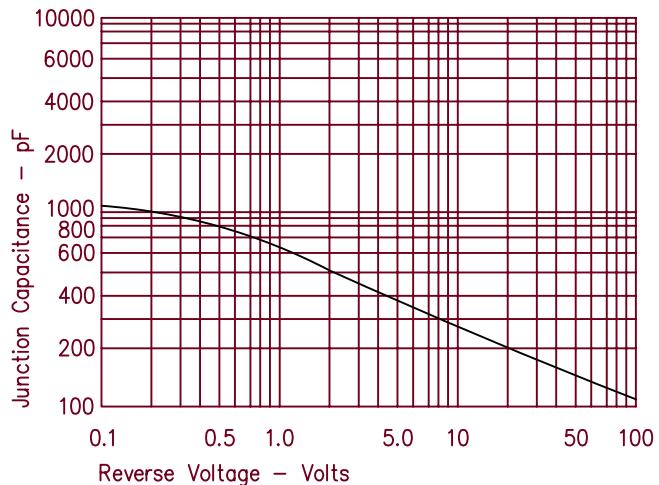


Figure 4
Forward Current Derating

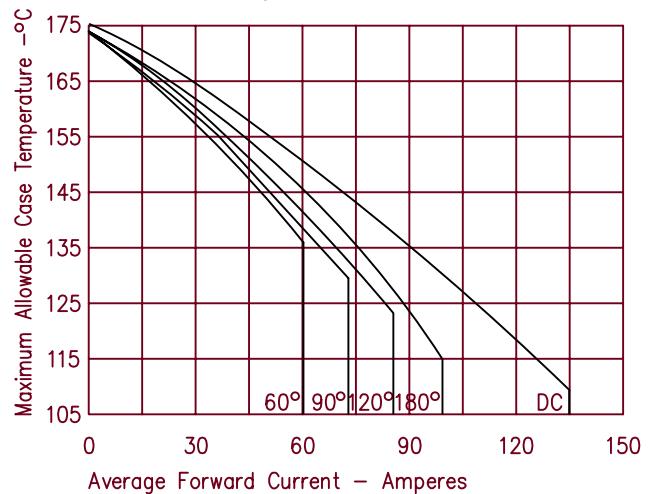


Figure 5
Maximum Forward Power Dissipation

